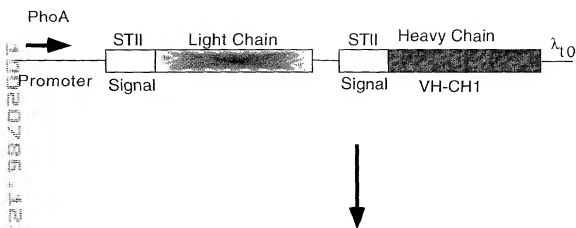


Fab Expression Vector pAK19



Full Length Antibody Expression Vector Derived from pAK19

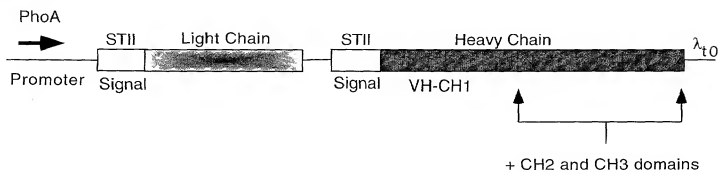


Figure 1

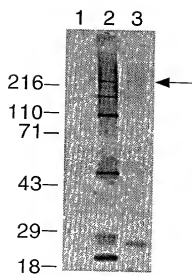


Figure 2

Polycistronic Constructs

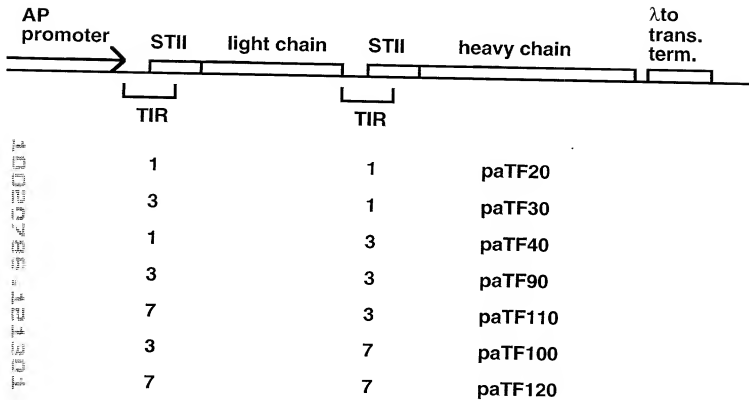


Figure 3.

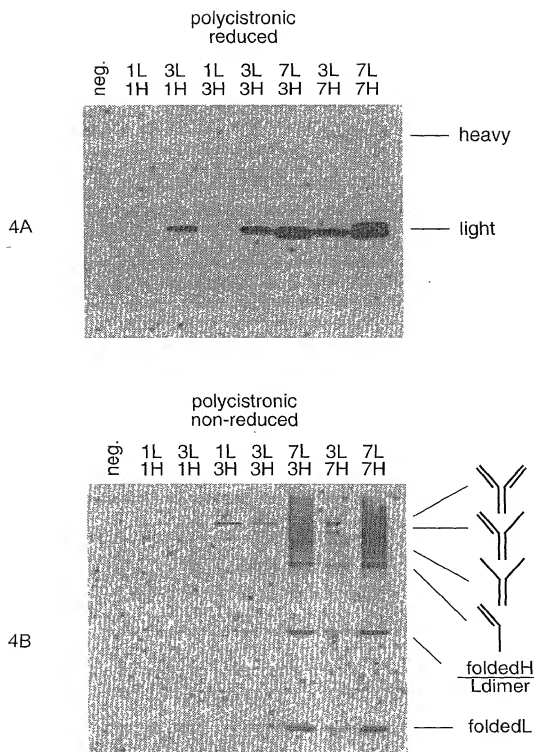
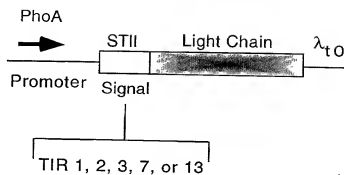


Figure 4

Light Chain Constructions



Heavy Chain Constructions

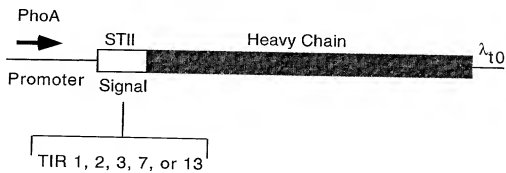


Figure 5

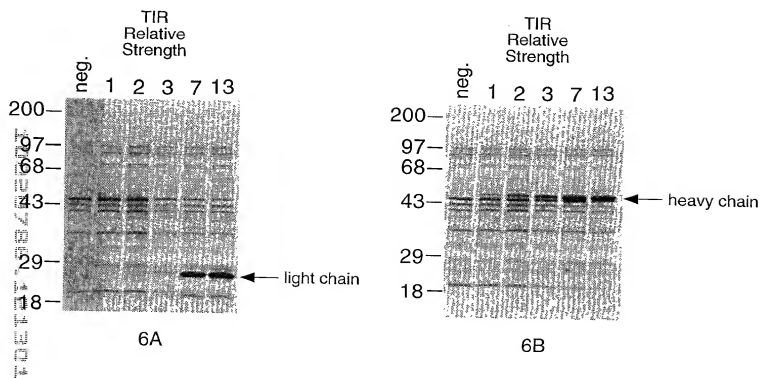


Figure 6

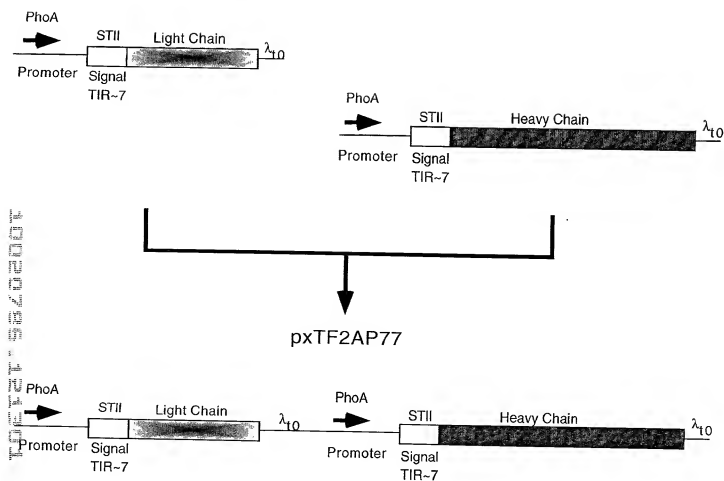


Figure 7

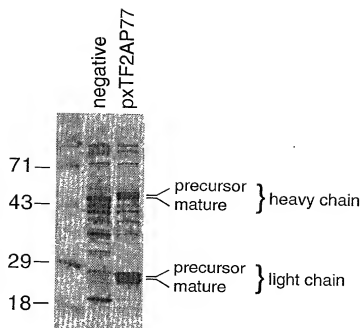


Figure 8

Separate Cistron Constructs

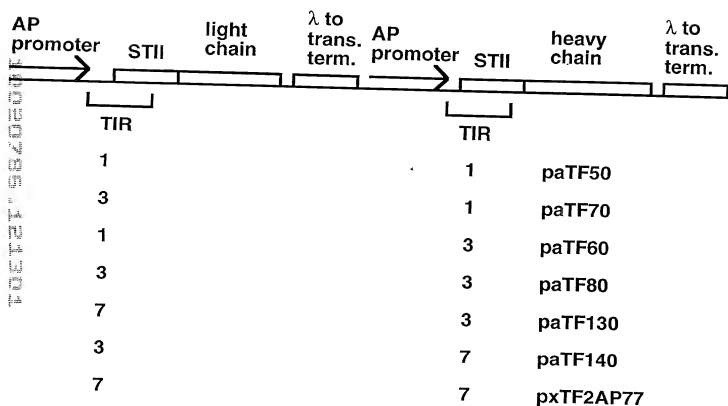


Figure 9

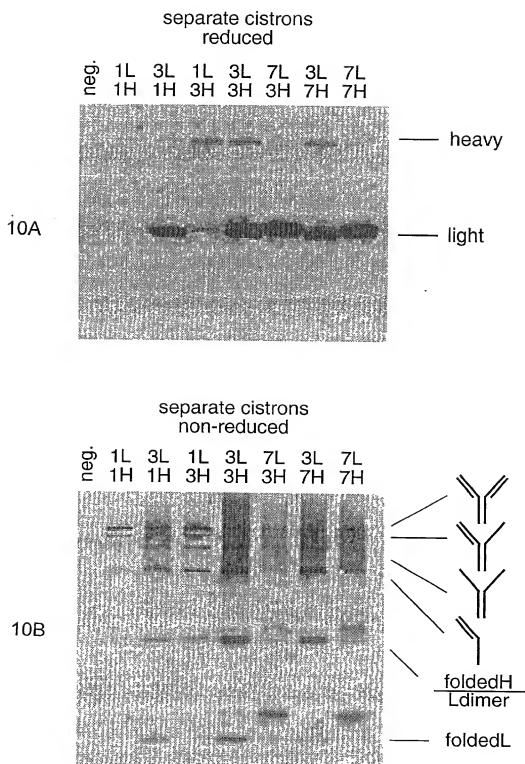
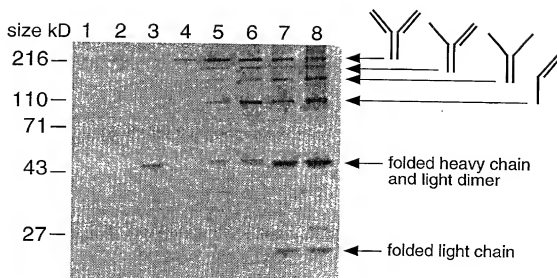


Figure 10



- 1) negative control
- 2) TIR 1-light, TIR 1-heavy, polycistronic
- 3) TIR 3-light, TIR 1-heavy, polycistronic
- 4) TIR 1-light, TIR 3-heavy, polycistronic
- 5) TIR 1-light, TIR 1-heavy, separate cistrons
- 6) TIR 1-light, TIR 3-heavy, separate cistrons
- 7) TIR 3-light, TIR 1-heavy, separate cistrons
- 8) TIR 3-light, TIR 3-heavy, separate cistrons

Figure 11

10020785-121304

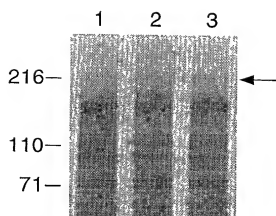


Figure 12

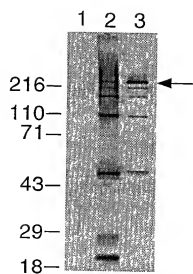


Figure 13

10020785.121304

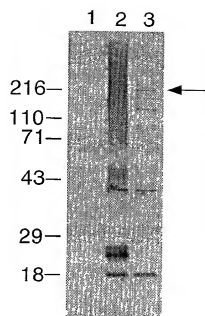


Figure 14

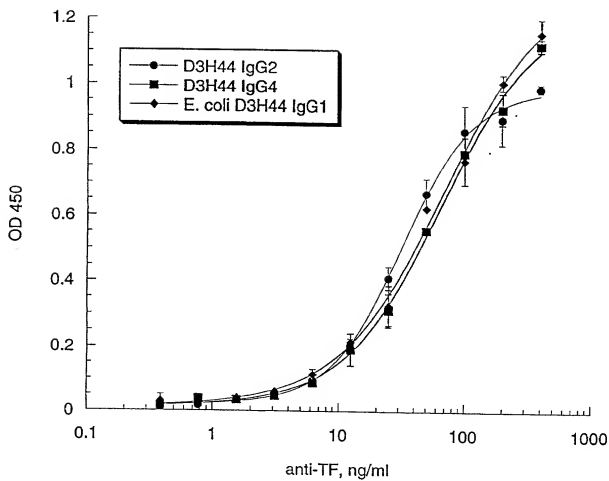


Figure 15

2023-06-06

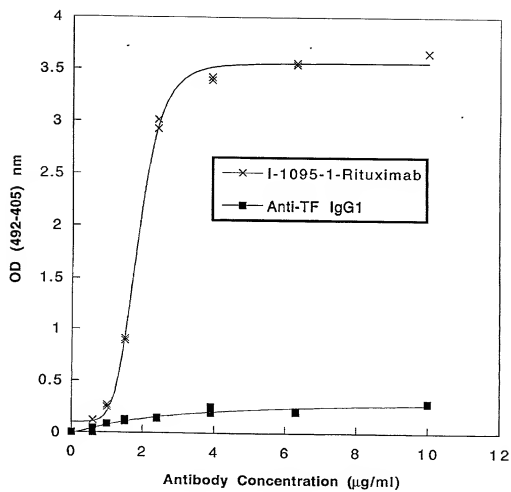


Figure 16

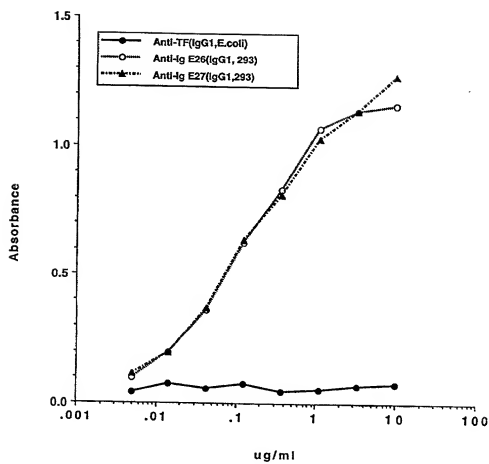


Figure 17

102727 58202001

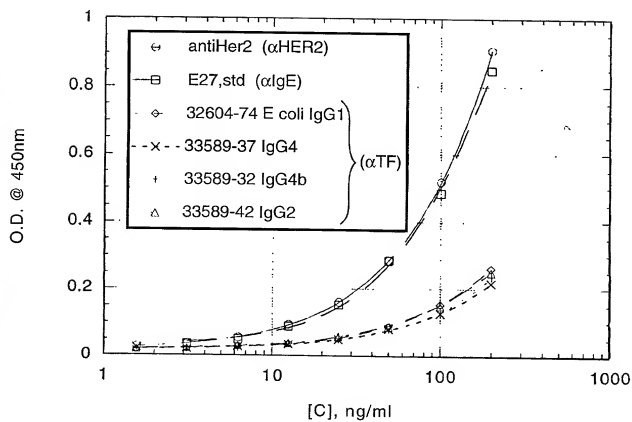


Figure 18

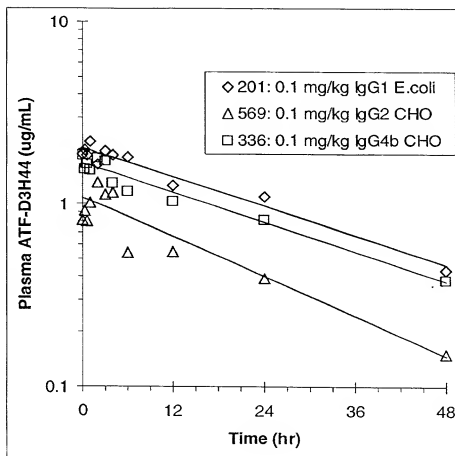


Figure 19

1 GATCTACT TCTCTACT TGTCTACT AATCTACG ATGAAATCT TACTCTCT GTTCTATT AACTCTCC AATAGAGA TTTCTCT TCTACTTA
 TCTACTTA AATAGAGA AACTCTCT TTTCTCT TACTCTCT AATCTACT AATCTACT AATCTACT TTTCTCT TCTACTTA
 101 GACTCTCG GCGCTGAG AACTCTGAG ATTCTCTG TCTCTACT TCTCTACT GCGAAATG ACGCTGAG GTTCTACT GCGCTGAG
 TCTCTACT GCTCTCT TCTCTACT TACTCTCT AACTCTCT GCGCTGAG AACTCTCT TCTCTCT TCTCTCT TCTCTCT
 201 GCGCTCTA GCGCTGAG GCGCTCTA GCTCTCT GCGCTCT GCGCTCT GCGCTCT AACTCTCT TCTCTCT TCTCTCT
 GCGCTCT GCGCTCT GCGCTCT GCGCTCT GCGCTCT GCGCTCT GCGCTCT AACTCTCT TCTCTCT TCTCTCT
 301 AATCTACT GTTCTACT GTTCTACT GTTCTACT GTTCTACT GTTCTACT GTTCTACT GTTCTACT GTTCTACT GTTCTACT
 TTTCTACT TTTCTACT TTTCTACT TTTCTACT TTTCTACT TTTCTACT TTTCTACT TTTCTACT TTTCTACT
 401 TCTCTACT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT
 AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT
 1 M K N I A F L L A S M P V S I A T N A Y A D I
 "SIII Signal Sequence TIR-1"
 501 GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT
 GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT
 26 Q M T Q S P S S L S A S V G D K V I I C R A S R D I K S I L N M I
 601 AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT
 TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT
 60 Q Q K P G K A P K V L I Y A T S L A E G V P S R F S G S G S G T
 701 GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT
 GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT
 93 D I T L I S L Q P E D F A T Y C L Q H G E S P W T F G Q T
 801 AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT
 TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT
 126 K V E I K R T V A A P S V P I P P P S D E Q L K S G T A S V V C L L
 901 TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT
 TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT TACTCTCT
 160 N N F Y P R E A K V Q M K V D N A L Q S G N S Q E S V T E Q D S K
 1001 GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT
 GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT GACTCTCT
 193 D S T Y S L S S T L T D S K A D I E K H K V I A C E V T H Q G L S
 1101 TCTCTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT
 AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT AACTCTCT
 226 S P V T K S F N R G E C O

Figure 20a

2501 TCCACAGAC AAGTCGGG AGAGAGAGT CAGACAGAG TACGCTGTC TACGCTCTT CAGCTCTGTC CAGACAGTAT GCGTATGTC CAGAGCTAC
 ACGTCTCTT TTCCGCGCC TCTCTGTAT GTTGTGTGC ATGAGAGAC AGTGCAGGA GTGCGAGAC GTGTGCTGA CCGACTTAC GTTCTGTG
 310 A K T K P R E Q Y N S T Y R V V S V L T V L H Q D W L N G K E Y
 2601 AAGTGAGAG TCTCAGAA AGCTCTCCA GCGCCCATG AGAAAGCOT CTCGAAGCC AAGGSCAGC CCGAGAAC ACCGTGTAT ACCGTGCCCC
 TTCACTTTC AGAGGTGTT TGGGAGAGT GGGGGTAGC TCTTTGTA GAGTTTGS TTTCCTGTC GAGCTTGS TGTCCATG TGGAGAGGG
 343 X C K V S N K A L P A P I E K T I S K A K G Q P R E P Q V Y T L P P
 2701 CATCCGGA AGAGTAC AGAGACAG TCGCTGAC CTGCTGTC AAGCTTCT ATCCAGGGA CTGCTGTC GAGTGGGAG GATATGCT GTTACCTT
 GTAGGCTT TCTTCTGTC ATGAGCTC ATGAGCTC GAGAGCTG TTTCAGGA TGGTGTCT GTAGGAGC CTACCTTCT GTTACCTT
 377 S R E E M T K N Q V S L T C L V K G P I P S D I A V E W E S N G Q
 2801 GCGAGAGAC AACTACAA CAGAGCTCC GTGCTGAC TCGAGAGT CTTCTTCT CTAGAGAG GTATCTTC GAGTGGAGC GAGTGGAGC
 GCGCTCTG TTGATGTT GTGAGAGG GAGAGCTG AGCTGCGA GGAAGAGA GATGCTTC GAGTGGAGC GTTCTCTC CAGCTGTC
 410 P E N Y K T T P P V L D S D G S F F L Y S K L T V D K S R W Q Q
 2901 GGAAGCTCT TCTATGTC GTATGCTG GAGCTGTC ACAGACCTA CAGAGAG AGCTCTTCC TTTCTCGS TAATAGCA TCGAGGCG
 CTTTCAGAG AGATGAG GAGTACCTA CTGAGAGG TGTGTGAT GTGCTCTC TCGAGAGG AGAGAGCC ATTATCTT AGCTGCGG
 443 G N V F S C S W H E A L H N H Y T Q K S L S L S P G K O
 3001 CTAGATCCC TACGCTCG TTGCGCG GCTTTTGA TTTTATCT GTTATCTC GTTATGCT GATATGCTT ATGCTGAT TTTATGAG
 GATTCGAG ATTGCGGC AGCGCGGC GCGAATAT ACATGAG TACAGCT GCGATGAG CTATCGAA TTAGCTCT AATATGTC
 3101 TTAATGCT AAGGATCA GCGAGCTG ATGAATCTA AGATGCTG ATGCTGAT CTGCGAGG TACCCCTGA TCGTGTAGC ATAGCTGTC
 AATTATGCA TTGCTCAT COTGTGACA TACTTATG TTTTACGCA GTAGAGTAG GAGCTGAG AGCTGAGT AGAGATCG TATCCGAGC
 *Start Tet Resistance Coding Sequence
 3201 TTATGCTGT ATGCGCGGC CTTTCCGG ATATGCTCA TTCCAGAG ATGCGAGT ACTATGCT GTCTAGG CTATATGCT TGTATGAT
 AATLGGCA TGCAGGCC GAGAGGCC TATAGAGT AAGCTCTG TACGCTG TATACGCA CAGAGATGC GATATGCA ACTAGCTTA

Figure 20c

1 GANTGCACT TCTGCACT TGTGATGAG AATGACAG ATGAAATTC TCTATGCTGA GTGTATTT AGCTGTCC AAAGAGAGA AGAGAGAA
CTATGATTA AGAGATGA AGCTATCTC TTATGCTG TACTTTTAT AGTAAAGCT CAACATAA TTGCAAGSS TTCTTCTT TCTGACTTA

101 GACATGTGT GCGAGAGAA AGCTTGAGG ATATGCTGA CTGATGCT TGCATATG GCGCAATG ACGACAGG GTTGATGAT CAGATAGAG
CTACAGAC GCGTCTCT TGAACCTT TATAGGCT GAGTATGA AGGTATATC GCGTTTAT TGTGTGTC CACTAATTA GTATCTTC

201 GCGCTGCTA GAGATGAG CCGATGCTA GATCTGCTA GCGAGTCC GAGCTGTGC GCGATGCT ABAAGATTA TTGAGCTAT GAGCTGAT
CCGAGACAT GCGTCTCT GCGTACCT CTGAGAGC GCGTATGA TGTCTAT TCTATGTA TTGTATTA GTACAGAT

301 AAGATGAT CTTTGACA GTGTGATA AGTGTGAG GCGAGACT AGATGCTT TGTATTT TTATGTA TTGTATTA GTACAGAT
TTTCAATTA GAAATGCT GAGATGAT TACATATC CCGCTGAA TATGAGGA ACAAATTA AATATCAT AACTATAT CAGCTGTA

401 TCGATGAAA AGGTATCTA GATTAAGA GAGATATC GATTTCTT TGTGATAT GTTGTTT TCTATGTA CAAAGCTA CCGTATAT
AGTCAATTT TCGATGAT CTATGAT CTCTATG CTTAAGAG AGATGATA CAGCAAAA AGATAGAT GTTGGCAT GCGATATG

1 M K K N I A F L L A S M P V F S I A T N A Y A D I
Still signal TIR -1

501 CAGTGAACC ATCTCCGAG CCGCTGTCC GCGTATGCT GCGTATGCT GCGTATGCT TACAGATAT TACAGATAT TTAACATGCT
GTCAATGCG TACGAGCTC GCGAGCAG CCGAGAAC CCGTATGCTA GTGATATG AGTGTGCT CAGTCTTA ATCTGATA ATTTAGCA

26 Q L T Q S P S S L S A S V G D R V I I T C S A S Q D I S N I L N W Y

601 ATACAGAAA ACAGAGAAA GCTCCDAG TACTATTTA CTCACTTC TCTCTGCT CTGATGCC TTCTGTCTC TGTATGTC GTTCTGGAC
TAGTGTCTT TGTCTGTT CAGCTCTT ATGCTAAT GAGTGGAG AGAGATGA GACTGAG AGAGCGAG AGACTAGC CAGACCTG

60 Q Q K P G K A P K V L I Y F T S L H S G V P S R F S G S G S G T

701 GATTTGCT CTACATGA CAGTGTGA GCGAGAAC TTGCACTT ATACTGTA ACGTATAG CAGTGTCT GAGCTTGG ACGAGTACC
GATCTGAG GATCTGAG CAGTGTCT AGCTGTG ATGCTGTA TATGATGAT TGTATATG TCGACAGA CTTGCAACC TTCTCATG

93 D F T L I S S L Q F R D F A T I Y C Q Y S T V P W T P Q G T

801 AAGTGGAGA TAAAGAGAC TGTGCTGA CAGTGTCT TACTCTCC GCACTGAT CAGCTGTA AGTGTGAG TGTGTGCT GTTGTCTGC
TTCACTCT ATTTCTG ACAGAGCT GTTAGAGA AGTAGAGG GGTATGTA CTGTCACT TTAGACTG AGAGAGT CAGTGTG

126 K V E I K R T V A A P S V F I F P P S D E Q L X S G T A S V V C L L

901 TGAATCACT CTATCCGA GAGCGAAG TACATGGA GGTGTATC GCGTCAAT CCGATCACT GTACAGAT GTACAGAGC AGAGAGAA
ACTATGTA GATGATCT CTGCTTTC ATGTCACT CAGCTATG CCGAGATTA GCGCTGAG GGTCTGTC CAGTGTCTG TGTGTGCTT

160 N N F Y P R E A K V Q W K V D N A L Q S G N S Q E S V T E Q D S K

1001 GAGACGAC TACAGCTA GAGACCTC GAGCTGAG CAGCTGAG AAGAGACT AGAGAGAA CAGATCTAC GCTGCGAG TACACCTA GAGCTGAGC
CGTGTGAG AGTGTGAG CTGATGAG CCGATGAG TTCTGTA AGCTTGT GTTATGAG CAGATCTC AGTGTGAT CAGTGTGAG

133 D S T Y S L S S T L T L S K A D I H K H K V I A C E V T H Q G L S

1101 TCGCTGCTA CAGAGACT CAGAGAGA GAGTGTAT TAACTGCT AGCGAGG CAGTGTGAG CAGTGTGAG CAGAGAT AGGCTGAG
AGCGAGCT GTTCTGAA GTTCTGCT CTACATTA ATTTAGAGA TCGCGCTC GTACAGCC TCGAGCAT GCGCTGAG TCGATGTC

226 S P V T K S F N R G E C O

Figure 21a

1201 CTGCTGTGCG GCGCGGCTT TTTATGTT GCGAGCGCG ATCTCGATG AACTGTGTC GAGGTAGAA GCTTTGAGAA TTATGTCAC TCGATGCTT
GAGCGCGCG GCGCGCGCGA AATAATACAA GCGCTGCGCG TAGAGCTTAC TTGACACAG GCTCCATCTT GGAACCTCT ATAGGAGTG AGGTATGCGAA

1301 GCGATATCG GCGAATACG CCGACACCG TTGATGATC AGGTGAGCG GCGCTGTGAC GAGTATGCG CCGATGCGCG CATCTGTGAC GAGCATAGCG
GCGTATACG GCGTATACCT GGTGTGCGG ACTATACAG TCGATCTGCG GCGCGACAG GCTGATGCG GCGTATGCG GTAGAGCTG CTGTATGCGC

1401 AGCTGTGCG GAGTATGTA AGAGATGTA TCGACATGTC TGTGTGTAA MAAGTATAC TTTCACACG CTGTGTATAA GTTGTGCGCG CCGAGATCTA
TGGAGAGCG GCTATGATCT TTCTGTGAA ACTGTGTGCG AGCGTGCTT TTGATGATG AAGATGTCG GAGCATATCT CAGCATGTC CAGTATGCT

1501 TATGTGCTTT GTTTTATTT TTATATGTA TTGTATGAG TAGCGAGGT CAGTATAAA GSGATCTAG AATATGAGG AGATATGAG AGATATGAG CATCTGTCT
ATATGCGAA CAAATATAAA AATATATA AAGATATGAT ATGATGTGAA GTGATATTT CCGATATGTC TTCTATGAG TTCTATGAG GTATAGAGA
M K K N I A F L L
*STII Signal TIR-1

1601 TCGATATG TGCTTTTCTT CTATGTCAC AAGCGGTGAC GCTATGCTT ACCTGTGGA GTCTGTGCTT GCGTGTGTC AGCGAGGGG CCGATGCTGCT
AGATATGAT AGGATATGAA GATATGATG TTGTGATG GATCTGAG TCGATGACT CAGACGCGCA GCGATGACAG TCGTGTGCGG GAGTATGCG

10 A S M F V F S I A T N A Y A N V C L V E S G G G L V O P G G S L R

Anti-198F Heavy Chain

1701 TTGTGCTG GAGCTTGCG CTAGCTTIC AGCATAGAG GTGCTGTG GTCCTGTGAG AGGCTGTGAA ATGATGTGAA TGTATGTGAA TGTATGTGAA
AAGAGATGAC GTGAGAGAC GATGCTGAG TCGGTATGTC CATATCTGAC CCGAGATGTC CCGAGATGAC TCGGAGCTT TACCGACTT ACTATGCTT

43 L S C A A S G Y D F T H Y G M N M V R Q A P G K G L E W V G M I N T

1801 CTAATAGCG TGAACCGAC TATGCTGCG ATTTCAGCG TGTTTCTACT TTITCTTATG AACCTGCA AGCAGACCA TACTTGACA TGAACAGCTT
GAGTATGCGG ACTGTGTGCT ATACAGCC TAAGTTTTC AGCAAGTGA AAGAGATGTC TTGTGTAGTT TTGTGTGCT ATGAGCTCT ACTGTGGA

77 Y T G E P T Y A A D F K R R F T F S L D T S K S T A Y L Q M N S L

1901 GCGCTGCG GAGCTGCG TGTATGTA TCGAATGAC CCGTATCT AGGCGCGG CAGTGTGTA TTGAGCTCT GAGGTGAGG AACCTGTGTC
GCGGACTT CTGTAGGCG AGTATGAC A K Y P T Y G T S H A Y F D V W G G T L V

110 R A B D T A V Y Y C A K Y P T Y G T S H A Y F D V W G G T L V

2001 ACCGTCTCT CCGCTGAC CAGAGCGCA TGCTGTCTTC CCGTGTGAC CTCTCTGAG AGCATCTG GAGGATGAC GCGCTGTGTC TGCTGTGTA
TGGAGAGA GCGAGAGTG GTTCTGCGT ACCAGAG GCGACCTGCG GAGGATGTC TTGTGTGAGC CCGCTGTG CCGGAGCGG AGGAGACTT

143 T V S A S T K G P S V F P L A P S S K S T S G G T A A L G C L V K

2101 AGCATACT CCGGACCG GTAGAGTGT GTGAGACT AGGCGCTG ACAGCGCGG TCGACACTT CCGGCTGTC CTAGCTCT CAGCATCTA
TCTATGGA GAGGTGTG CATCTGCA GACTGTGAG TCGCGGAC TGCTGCGC ACTGTGTGGA GAGTATGAG GATGTGGA GTTCTGAT

177 D I F P F T V S W N S G A L T S G V H T F P A V L Q S S G L Y

2201 CTCTCTGAC AGCGTGTG CTGTGCTG TAGCATCTG GCGACCGGA CTATGATG GAGTATGAT CAGACGCA GCGAGACCA GTGTGAGAG
GAGAGATG TCGCATGAC GAGCGGAG ATGTGTGAC CGATGATCT GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG

210 S L S S V V T V P S S L G T Q T Y I C N V N H K P S N T K V D K

2301 AAGTATGAC CCGATCTG TGAACACT CAGATGCG CAGCTGCGC AGCATGGA CTCTGTGCGG GACGTGAT CTCTCTCTT CCGCGAAG
TTGATCTG GGTATGAC ACTGTGTGAG GTGTGTGAG GTGTGAGCG TTGTGACTT GAGAGCTCC CTGACATG GAGAGAGG GGGGTTTG

243 K V E P K S C D K T H T C P C P A P E L L G G P S V F L F P K P

2401 CCGAGATG CTCTGATG TCGGAGCG CTGAGCTAC ATGTGTGCG GTGAGCTGA GCGAGAGA CCGTATGTC AGTGTACT GTGATGTA
GTCTGTGCG GAGTATGAG AGGAGCG GAGTATG AGGAGCG CACTGTACT CCGTGTCT GAGCATGAG TTGATGTA CCGATCT

277 K D T L M I S R T P E V I C V V V D V S H E D F E V K F N M I V D

Figure 21b

2501 GCGGTGGAG GTGCTTAGG CGAAGACAA GCGCGCGGAG GAGCGGTCA AGACATGCA CGTGTGATG AGGCTGTCA CGTCTGCA CGAGCATCG CGTCTGCGA
CGCCATCG CAGTACG GATCTGCGA GCGCGCGGAG GCGCGCGGAG GCGCGCGGAG GCGCGCGGAG GCGCGCGGAG GCGCGCGGAG GCGCGCGGAG GCGCGCGGAG
310 G V R V H N A K T K P R B E Q Y N S T Y R V V S V L T V L H Q D W
2601 GTATGATCG AGAGATGCA GTAGGATGCG AGGATGATGCG CCATGATGCG AATATCATG CTATGATGCG AGGCGATCG GCGCGCGGAG GCGCGCGGAG
CGATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG
343 L N G K E Y K C K V S N K A L P A F I E K T I S K A K G Q P R E P Q
2701 AGGTATGAC GTATGATGCG TCCGCGGAG AATATGACG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG
TGCATGCG GTATGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG AGCGATGCG
377 V Y T L P P S R E E M T K N Q V S L T C L V K G P Y P S D I A V E
2801 GTGGAGGAG AATGGCGAG CGAGAGCA GTAGAGAC AGCTGTGCG GTGTGTGCG AGCGATGCG GTGTGTGCG AGCGATGCG GTGTGTGCG AGCGATGCG
AGCTGTGCG TATCGTGC CGATGATGCG AGCTGTGCG AGCTGTGCG AGCTGTGCG AGCTGTGCG AGCTGTGCG AGCTGTGCG AGCTGTGCG AGCTGTGCG
410 W S E N Q G P E N M I K T I P P V L D S D G S P F L Y S K L T V D
2901 AAGAGATCG GCGCGGAG GAGATGCG TATGTGCG TATATGCA GTGTGTGCG AACATGCA CGAGAGAG GTCTGTGCG GTCTGTGCG
TCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG GTCTGTGCG
443 K S R W Q Q G N V F S C S V M H E A L H N H Y T Q X S L S L S P G K
3001 ATATGATGCG AGAGATGCG AGATGCTGCA AGCTGTGCG GCGCGCGGAG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG GTATGATGCG
GTATGATGCG GTCTGTGCG TCTGTGCG TCTGTGCG TCTGTGCG TCTGTGCG TCTGTGCG TCTGTGCG TCTGTGCG TCTGTGCG
477 0
3101 TGGTGAATG TATGATGCG AATATGCA GCGATGAG CAGCTGTGCG CAGCTGTGCG CAGCTGTGCG CAGCTGTGCG CAGCTGTGCG CAGCTGTGCG
AGCGATGCG AATATGCA TTTAGATGCG GTGTGATGCG GTGTGATGCG GTGTGATGCG GTGTGATGCG GTGTGATGCG GTGTGATGCG GTGTGATGCG
3201 GTTATGATG AGCTGTGCG ATCGCGATG TCGCGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG
GAGCTGTGCA TCGAGATG AAGCTGTGCA GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG
3301 GTTATGATG TCGAGATG AAGCTGTGCA GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG GTGTGATG

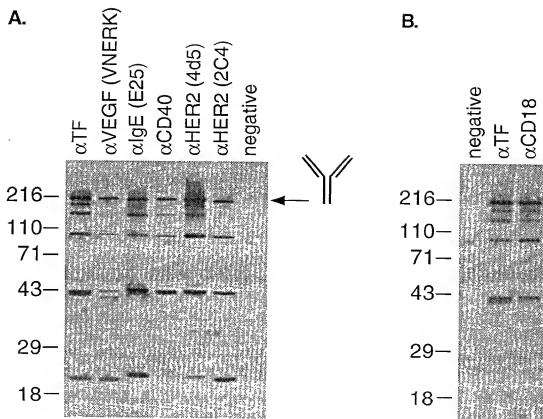


Figure 22